

## **II. AMENDMENTS TO THE DRAWINGS**

Please see attached Replacement Drawing for Figure 1.

### III. REMARKS

Applicants thank the Examiner and Supervisory Examiner for their time in meeting with Applicants' Representative in the May 18, 2010 Interview.

Claims 1-8, 10, and 11 are currently pending in the application.

#### Rejection of the Claims

Claims 1-5, 7, 8, 10, and 11 stand rejected under 35 U.S.C. 102(a) as being anticipated by Redon et al (U.S. Patent Publication No. 2002/0105827). Applicants respectfully traverse this rejection. As discussed during the aforementioned Interview, Redon et al. fails to disclose or suggest "a tunnel barrier of anti ferromagnetic material provided with an exchange coupling with an adjoining one of magnetization pinned layer of ferromagnetic material, the tunnel barrier layer being dielectric and tunnel conductive". The grounds of rejection assert that the reference number 122 in Redon corresponds to the claimed tunnel barrier layer. See page 4, line 4 in the Office Action. However, [0043] of Redon et al. states "non-magnetic conducting layer (122)", which is different from the claimed tunnel barrier layer being "antiferromagnetic" and "dielectric." Further, nowhere in Redon et al. does it disclose that the layer 122 is exchange-coupled with the layer 123. Accordingly, Applicants respectfully submit that the claims distinguish from Redon et al.

#### Objection to the Drawings

Regarding the objection to the drawings, please see a Replacement Drawing for Figure 1 showing a "base including an electrode configured to apply voltage between the emitter and the base". No new matter has been added.

Applicants respectfully submit that the application is in condition for allowance. If the Examiner believes that anything further is necessary to place the application in condition for allowance, the Examiner is kindly requested to contact Applicants' undersigned representative at the telephone number listed below.

Respectfully submitted,

/ Ronald Kimble /  
Reg. No. 44,186

Dated: May 21, 2010

Kimble Intellectual Property Law, P LLC  
1701 Pennsylvania Avenue, NW  
Suite 300  
Washington, DC 20006  
(202) 280-2073 - Telephone  
(202) 280-2068 - Facsimile